

Special Issue

Uncertainty and Reliability Analysis for Engineering Systems

Message from the Guest Editors

Reliability is one of the core performance indexes of products, which has attracted increasingly more attention in recent years. For complex engineering systems, the uncertainties of geometric dimensions, material properties, and loads are more prominent. Topics for potential contributions include but are not limited to the following:

- Uncertainty quantification;
- Advanced uncertainty propagation methodologies, g., metamodel methods and artificial intelligence algorithms;
- Sensitivity analysis techniques and efficient algorithms;
- Reliability-based design optimization;
- Reliability-based multidisciplinary design optimization;
- Reliability assessment for engineering systems;
- Emerging tools for reliability design analysis and optimization;
- Practical applications in engineering systems.

Guest Editors

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Deadline for manuscript submissions

closed (30 December 2025)



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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